ABSTRACT OF THE DISCLOSURE

A system, method and computer readable medium are provided for configuring network interfaces grouped into nodes for monitoring functionality. According to the method, a base address and subnet mask for the network interfaces are received, and a monitoring address is automatically generated for each of the network interfaces based on the base address, the subnet mask, and the nodes. The monitoring addresses is generated such that the monitoring address for each of the network interfaces is on a different subnet than the monitoring addresses for all of the other network interfaces in the same node as that network interface. Additionally, the monitoring addresses are assigned to the network interfaces for use by the monitoring process, with each of the monitoring addresses being assigned by being added as an additional network interface address of its network interface. Also provided is a method for monitoring functionality of network interfaces and providing fault recovery.